

## Pediatric DART: Maryland Burn Injuries in Children

Injury is the leading cause of childhood death and hospitalization between the ages of one and fourteen. During the month of February each year, the focus of injury prevention networks is Burn Prevention and how to keep children safe in their homes and communities. Burns are categorized into four major types: Electrical, Chemical, Thermal, and Inhalation. Based upon the data from the Maryland Burn Centers—the focus of this article will be on Thermal Burns and preventing them. Thermal burns include: flame, contact, and scald mechanisms.

The charts and graphs below provide a snap shot of the Burn Facts in Maryland for those children seen in Burn Centers:

Who: Children are at greatest risk between the ages of 1 year to 9 years of age

What: The majority of burns to children are from scalds and contact with hot objects

Where: The majority of burns in children occur in the home

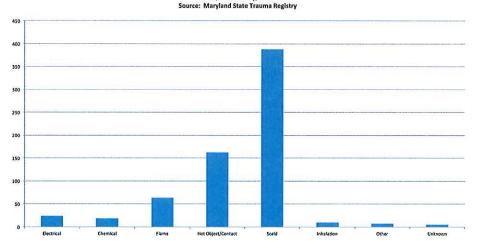
When: Burns occur throughout the 24 hour period but peak between 12 Noon and 12 Midnight

When: Burns occur evenly in all seasons of the year

The MIEMSS Annual Report provides details by county, age and hospital (www.miemss.org).

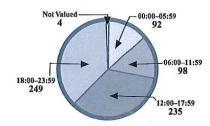
#### Etiology of Injuries by Age Patients Treated at Pediatric Burn Centers and Patients Less Than Age 15 Treated at Johns Hopkins Burn Center at Bayview (June 2013 to May 2014) Source: Maryland State Trauma Registr Thermal Electrical Chemical Unknown Total Age Range Flame Contact Scald Inhalation Other Burn Non-Bun Under 1 year 30 45 88 I to 4 years 18 91 211 11 344 5 to 9 years 4 26 27 76 4 0 0 138 0 10 to 14 years 3 17 10 41 1 0 78 4 15 0 15 years and over 0 30 24 18 162 388 10 678

# Etiology of Injury Patients Treated at Pediatric Burn Centers and Patients Less Than Age 15 Treated at Johns Hopkins Burn Center at Bayview June, 2013 to May, 2014



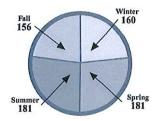
#### **Time of Arrival Distribution**

Patients Treated at Pediatric Burn Centers and Patients Less Than Age 15 Treated at Johns Hopkins Burn Center at Bayview (June 2013 to May 2014) Source: Maryland State Trauma Registry



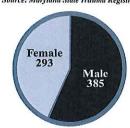
#### Season of Year Distribution

Patients Treated at Pediatric Burn Centers and Patients Less Than Age 15 Treated at Johns Hopkins Burn Center at Bayview (June 2013 to May 2014) Source: Maryland State Trauma Registry



#### **Gender Profile**

Patients Treated at Pediatric Burn Centers and Patients Less Than Age 15 Treated at Johns Hopkins Burn Center at Bayview (June 2013 to May 2014) Source: Maryland State Trauma Registry





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Keeping children safe and secure is the responsibility of the adults in their family and community. Below are some easy steps to take to prevent burns in the home and when combined with adult supervision will protect children from harm.

Check water heater temperature – set no higher than 120° F/ 48° C (or just below the medium setting)
Always supervise children in bathtub (ignore the phone/ doorbell)
Install anti-scald devices in water faucets and shower heads
Place pots & pans on the back burner with handles turned inward to the back of the stove
Use back burners on stove
Never carry a child while cooking or pouring anything hot – not even to open the microwave
Keep hot drinks and food away from the edge of counters and tables
Keep appliance cords out of reach and behind the cooking device
Keep hair dryers, curling irons and cloth irons out of reach when in use and when cooling
Consider flameless (battery operated) candles throughout your home
Install safety gates into the kitchen, around fireplace and wood stove
Keep matches, lighters and gasoline/ lighter fluid up and away from children
Cover electrical outlets with safety caps

### **Burn and Fire Prevention Resources include:**

American Burn Association (ABA) www.ameriburn.org/ Consumer Products Safety Commission www.cpsc.gov National Fire Protection Association (NFPA) www.nfpa.org